

Kaushal, Sunesh



ENTERED

1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/963,693A

DATE: 08/04/2003

TIME: 14:43:17

Input Set : N:\Crf3\RULE60\09963693.raw.txt
 Output Set: N:\CRF4\08042003\I963693A.raw

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4 <110> APPLICANT: Ruvkun, Gary
5   Ogg, Scott
8 <120> TITLE OF INVENTION: THERAPEUTIC AND DIAGNOSTIC TOOLS FOR
9   IMPAIRED GLUCOSE TOLERANCE CONDITIONS
12 <130> FILE REFERENCE: 00786/351004
14 <140> CURRENT APPLICATION NUMBER: 09/963,693A
15 <141> CURRENT FILING DATE: 2001-09-25
17 <150> PRIOR APPLICATION NUMBER: 09/205,658
18 <151> PRIOR FILING DATE: 1998-12-03
20 <150> PRIOR APPLICATION NUMBER: 08/857,076
21 <151> PRIOR FILING DATE: 1997-05-15
23 <150> PRIOR APPLICATION NUMBER: 08/888,534
24 <151> PRIOR FILING DATE: 1997-07-07
26 <150> PRIOR APPLICATION NUMBER: US98/10080
27 <151> PRIOR FILING DATE: 1998-05-15
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31 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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35 <212> TYPE: DNA
36 <213> ORGANISM: Artificial Sequence
38 <220> FEATURE:
39 <223> OTHER INFORMATION: Primer/probe derived from C. elegans
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47 <213> ORGANISM: Artificial Sequence
49 <220> FEATURE:
50 <223> OTHER INFORMATION: Primer/probe derived from C. elegans
52 <400> SEQUENCE: 2
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56 <211> LENGTH: 20
57 <212> TYPE: DNA
58 <213> ORGANISM: Artificial Sequence
60 <220> FEATURE:
61 <223> OTHER INFORMATION: Primer/probe derived from C. elegans
63 <400> SEQUENCE: 3
64 ttagtcgtttt ggcgtatcgat                                         20
66 <210> SEQ ID NO: 4
67 <211> LENGTH: 20

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Input Set : N:\Crf3\RULE60\09963693.raw.txt
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72 <223> OTHER INFORMATION: Primer/probe derived from C. elegans
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78 <211> LENGTH: 22
79 <212> TYPE: DNA
80 <213> ORGANISM: Artificial Sequence
82 <220> FEATURE:
83 <223> OTHER INFORMATION: Primer/probe derived from C. elegans
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88 <210> SEQ ID NO: 6
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90 <212> TYPE: DNA
91 <213> ORGANISM: Artificial Sequence
93 <220> FEATURE:
94 <223> OTHER INFORMATION: Primer/probe derived from C. elegans
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102 <213> ORGANISM: Artificial Sequence
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112 <212> TYPE: DNA
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132 <210> SEQ ID NO: 10
133 <211> LENGTH: 20
134 <212> TYPE: DNA

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Input Set : N:\CrF3\RULE60\09963693.raw.txt
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150 <222> LOCATION: (1)...(5816)
151 <223> OTHER INFORMATION: n = A,T,C or G
153 <400> SEQUENCE: 11
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156 atgacgagaa tgaatattgt cagatgtcgg agacgacaca aaattttgga aaattttgaa 180
157 gaagagaatc tcggcccgag ctgctcgctg acgacttcaa caaccgctgc caccgaagct 240
158 ctcggAACAA ccactgagga tatgaggcgt aagcagcagc gaagctcgct gcgtgccacg 300
159 gagcacgata ttgtcgacgg caatcaccac gacgacgagc acatcacaat gagacggctt 360
160 cgacttgtca aaaattcgcg gacgcggcgt agaacgcacgc ccgattcaag tatggactgc 420
161 tatgaggAAA acccgccatc aaaaaaactt caataaatta ttcttgatt tctaaaaagt 480
162 catcaatgac gtcattaatg ctttactgc tattcgctt tgtacagccg tggcctcaa 540
163 tagtcgaaaa acgatgcggc ccaatcgata ttcgaaatag gccgtggat attaagccgc 600
164 aatggtcgaa acttgggtat ccgaacgaaa aagatttgc tggtcagaga atggtaact 660
165 gcacagtggc ggaagggtcg ctgacaatct cattgtact gaaacacaag aaaaaagcac 720
166 aagaagaaat gcatcgaagt ctacagccaa gatattccca agacgaattt atcactttc 780
167 cgcacatctacg tggaaattact ggaactctgc tcggttttga gactgaagga ttagtggatt 840
168 tgcgtaaaat ttcccaaat cttcggtaa ttggaggccg ttcgctgatt caacactatg 900
169 cgctgataat ttatcgaaat ccggattttgg agatcggtct tgacaagctt tccgtaattc 960
170 gaaatggtg tgcgttgcata atcgataatc gaaaactgtg ctacacgaaa acgattgatt 1020
171 ggaaacattt gatcacttct tccatcaacg atgttgcgt tgataatgc gccgagatc 1080
172 ctgtcactga gactggattt atgtgcccac gtggagctt cgaagaggat aaaggcgaat 1140
173 caaagtgtca ttattttggag gaaaagaatc aggaacaagg tgcgaaaga gttcagatgtt 1200
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179 cggcaggccct ttgctcggtt aatgtcccg atggttatca aatcaacccg gatgatcatc 1560
180 gagaatgccg aaaatcggtt ggcaagtgtg agattgtgtg cgagatcaat cacgtcattt 1620
181 atacgtttcc gaaggcacag ggcgttgc tatgtcaat tattgcggaa aatctgacga 1680
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184 acatgttccg gaatttacga cgtattgggg caaagtcaat gttcagaaat ctatatgtca 1860
185 tcacagtttt tgaaaatccg aattttaaaaa agtatttgcg ttcaacgacg gatttgcgc 1920
186 ttgatgtgg aactgtgtca attgccaata acaagatgtt atgcttcaag tatataaagc 1980
187 agctaattgtc aaagttaaat ataccactcg atccgataga tcaatcgaaa gggacaaatg 2040
W--> 188 gtgagaaggaaatctgtgag gatatggccaa tcaacgtgag catcacagcg gtcacacg 2100

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189	actcggtctt	cttttagttgg	ccctcattca	acattaccga	tatagatcag	cggaaagtttc	2160
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191	aggatcgaag	tgcgtgtgtc	gattcgtggc	agagtgtctt	caaacagtac	tacgagacgt	2280
192	cgaacgggtga	accgaccccg	gacattttta	tggatattgg	accgcgcgag	cgaattcggc	2340
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194	acgggtgtatc	gaagatttgtt	tttgtgagga	cgagctacta	tacgcctgtat	cctccgacgt	2460
195	tggcaactagc	gcaagtcgtat	tcggacgcta	ttcatattac	gtgggaagcg	ccgctccaac	2520
196	cgaacggaga	cctcacgcac	tacacaatta	tgtggcgtga	gaatgaagt	agcccgtacg	2580
197	aggaagccga	aaagttttgt	acagatgca	gcacccccgc	aaatcgacaa	cgcacgaaag	2640
198	atccgaaaga	gacgattgtt	gccgataa	cagtcgat	tccgtcatca	cgtaccgtag	2700
199	ctccgacact	tttgactatg	atgggtcag	aagatcagca	gaaaacgtgc	gctgcaacgc	2760
200	ccgggtgttt	ttcgtgttcg	gctatcgaag	aatcatcga	acagaacaag	aagaagcgac	2820
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203	aagagttgga	aaaagctgaa	aatttgggaa	aagctccaa	aactctcggt	ggaaagaagc	3000
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229	tcgggtctca	gccatatatt	ggtttgagta	atgatgaggt	gttgaattat	attggatgg	4560
230	cccgaaagg	tatcaagaag	cccgaatgtt	gtggaaacta	ttggatataag	gtgatgaaaa	4620
231	tgtgttggag	atactcacat	cggttgc	cgacgttcc	ccagctcg	catcttctag	4680
232	cagctgaagc	ttcaccagaa	ttccgagatt	tatcatttgc	cctaaccat	aatcaaatga	4740
233	tccttgcac	ttcagaagca	ctggatctt	atgatattga	tgatactgtat	atgaatgatc	4800
234	agggtgtcga	ggtggcaccg	gatgttgaga	acgtcgaggt	tcagagtgtat	tcggAACGTC	4860
235	ggaatacgg	ttcaataccg	ttgaaacagt	ttaagacgt	ccctccgatc	aatgcacga	4920
236	cgagtcattc	gacaatatcg	attgatgaga	caccgatgaa	agcgaagcag	cgagaaggat	4980
237	cgctggatga	ggagtacgca	ttgatgaatc	atagtgagg	tccgagtgtat	gcggaagttc	5040

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 240 caaatcgtag tggatcaaataa gaacgaggag ccgggttcgg tgaaggacta cgattaactg 5220
 241 atggatgtgg aagtggacat ttaaatgtat atgattatgt tgaaaaagag atatcatcca 5280
 242 tggatacgcg ccggagcacg ggcgcctcga gctttccca cggatgttcca cagacgaaatt 5340
 243 ggagtggaaa tcgtggtgcc acgtattata cgagtaaagc tcaacaggca gcaactgcag 5400
 244 cagcagcagc agcagcagct ctccaaacagc aacaaaatgg tggtcgaggc gatcgattaa 5460
 245 ctcaactacc cggaacttggc catttacaat cgacacgtgg tggacaagat ggagattata 5520
 246 ttgaaaactga accgaaaaat tatagaaaata atggatctcc atcgcgaaac ggcaacacgco 5580
 247 gtgacatccc caacggacgt tcggcttcg gtggaaaatga gcatctaattc gaggataatg 5640
 248 agcatcatccc acttgtctga aacccccaaa aaatcccgcc tcttaaattttaaaattatct 5700
 249 cccacattat catatctcta cacgaatatac ggatttttt tcagattttt tctgaaaaat 5760
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 256 <212> TYPE: PRT
 257 <213> ORGANISM: Caenorhabditis elegans
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 263 20 25 30
 264 Pro Trp Asp Ile Lys Pro Gln Trp Ser Lys Leu Gly Asp Pro Asn Glu
 265 35 40 45
 266 Lys Asp Leu Ala Gly Gln Arg Met Val Asn Cys Thr Val Val Glu Gly
 267 50 55 60
 268 Ser Leu Thr Ile Ser Phe Val Leu Lys His Lys Thr Lys Ala Gln Glu
 269 65 70 75 80
 270 Glu Met His Arg Ser Leu Gln Pro Arg Tyr Ser Gln Asp Glu Phe Ile
 271 85 90 95
 272 Thr Phe Pro His Leu Arg Glu Ile Thr Gly Thr Leu Leu Val Phe Glu
 273 100 105 110
 274 Thr Glu Gly Leu Val Asp Leu Arg Lys Ile Phe Pro Asn Leu Arg Val
 275 115 120 125
 276 Ile Gly Gly Arg Ser Leu Ile Gln His Tyr Ala Leu Ile Ile Tyr Arg
 277 130 135 140
 278 Asn Pro Asp Leu Glu Ile Gly Leu Asp Lys Leu Ser Val Ile Arg Asn
 279 145 150 155 160
 280 Gly Gly Val Arg Ile Ile Asp Asn Arg Lys Leu Cys Tyr Thr Lys Thr
 281 165 170 175
 282 Ile Asp Trp Lys His Leu Ile Thr Ser Ser Ile Asn Asp Val Val Val
 283 180 185 190
 284 Asp Asn Ala Ala Glu Tyr Ala Val Thr Glu Thr Gly Leu Met Cys Pro
 285 195 200 205
 286 Arg Gly Ala Cys Glu Glu Asp Lys Gly Glu Ser Lys Cys His Tyr Leu
 287 210 215 220
 288 Glu Glu Lys Asn Gln Glu Gln Gly Val Glu Arg Val Gln Ser Cys Trp
 289 225 230 235 240
 290 Ser Asn Thr Thr Cys Gln Lys Ser Cys Ala Tyr Asp Arg Leu Leu Pro

RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:11; N Pos. 2050
Seq#:31; N Pos. 3,12,15,18,21
Seq#:32; N Pos. 7,8,9,12,15
Seq#:115; Xaa Pos. 4,5,11,12,16,37,38,39,41,42,43,47
Seq#:126; Xaa Pos. 20,21,22
Seq#:127; Xaa Pos. 20,21,22
Seq#:128; Xaa Pos. 20,21,22
Seq#:129; Xaa Pos. 20,21,22
Seq#:130; Xaa Pos. 20,21,22
Seq#:131; Xaa Pos. 20,21,22
Seq#:132; Xaa Pos. 20,21,22
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Seq#:141; Xaa Pos. 20,21,22
Seq#:142; Xaa Pos. 20,21,22
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Seq#:150; Xaa Pos. 20,21,22
Seq#:151; Xaa Pos. 20,21,22
Seq#:152; Xaa Pos. 20,21,22
Seq#:153; Xaa Pos. 20,21,22
Seq#:238; Xaa Pos. 84,85,86,87,88,89,90,91,92,93,94,95,96
Seq#:304; Xaa Pos. 4,5
Seq#:323; Xaa Pos. 2,3,5,6

VERIFICATION SUMMARY

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Input Set : N:\Crf3\RULE60\09963693.raw.txt
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L:188 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:2040
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L:803 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:31
L:804 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:814 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:818 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:32
L:819 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
L:3338 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:115 after pos.:0
M:341 Repeated in SeqNo=115
L:3560 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:126 after pos.:16
L:3578 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127 after pos.:16
L:3596 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:128 after pos.:16
L:3614 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:129 after pos.:16
L:3632 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:130 after pos.:16
L:3650 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:131 after pos.:16
L:3668 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:132 after pos.:16
L:3686 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:133 after pos.:16
L:3704 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:134 after pos.:16
L:3722 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:135 after pos.:16
L:3740 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:136 after pos.:16
L:3758 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:137 after pos.:16
L:3776 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:138 after pos.:16
L:3794 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:139 after pos.:16
L:3812 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:140 after pos.:16
L:3830 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:141 after pos.:16
L:3848 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:142 after pos.:16
L:3866 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:143 after pos.:16
L:3884 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:144 after pos.:16
L:3902 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:145 after pos.:16
L:3920 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:146 after pos.:16
L:3938 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:147 after pos.:16
L:3956 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:148 after pos.:16
L:3974 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:149 after pos.:16
L:3992 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:150 after pos.:16
L:4010 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:151 after pos.:16
L:4028 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:152 after pos.:16
L:4046 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:153 after pos.:16
L:5914 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:238 after pos.:80
L:6809 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:304 after pos.:0
L:7349 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:323 after pos.:0